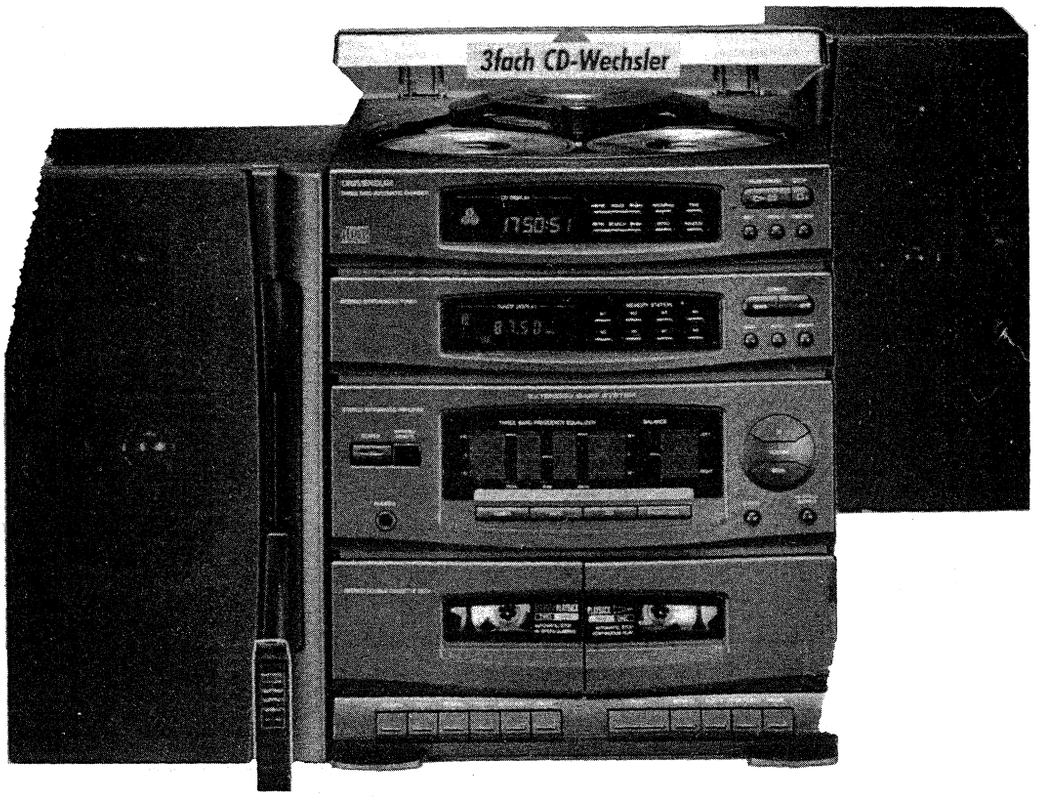
Quelle TECHNISCHER KUNDENDIENST

Technische Unterlage

Best.-Nr.:
035 8218

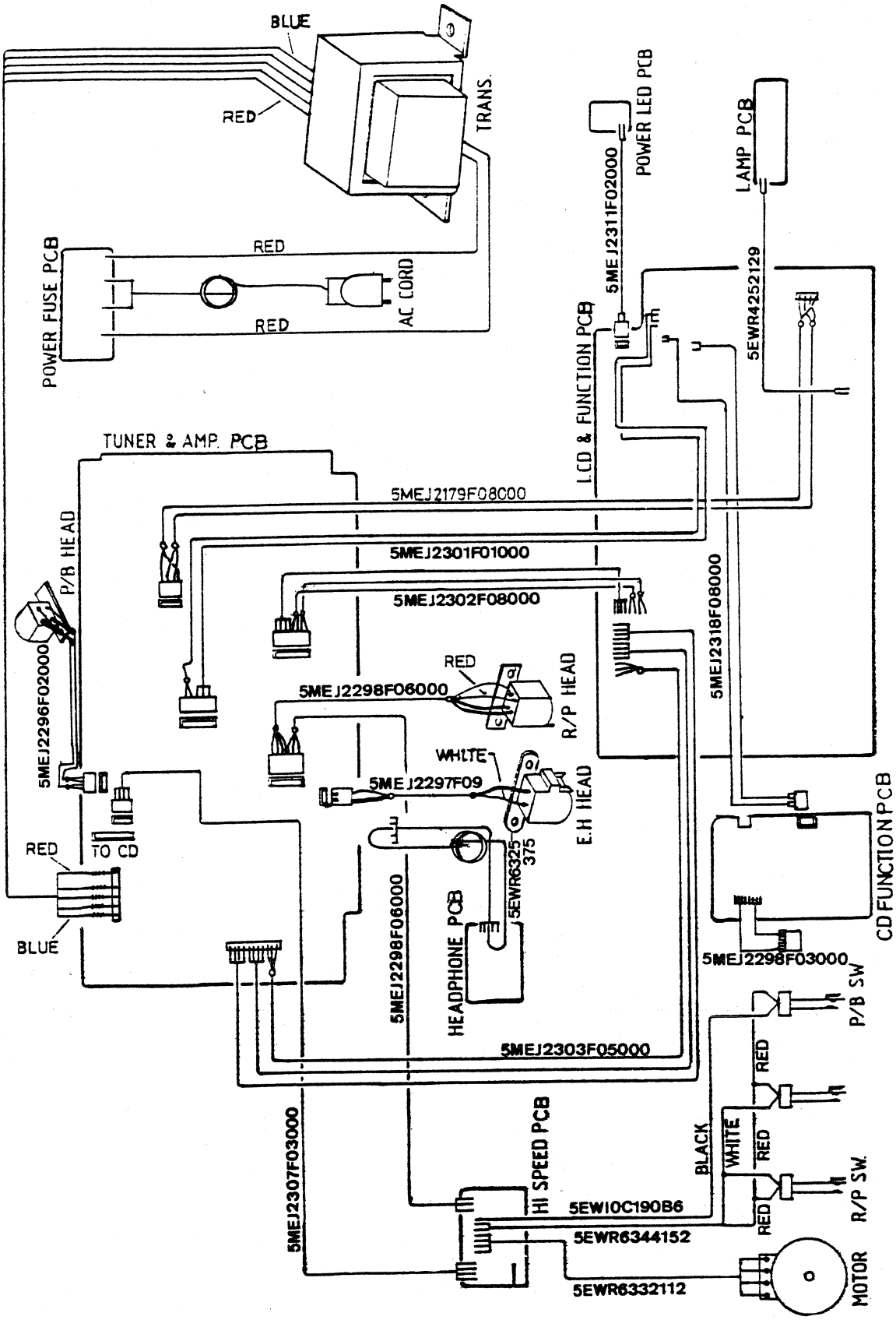


Best.Nr.: 0358218/01
Ger.Bez.: UNIV.-MINI-ANLAGE

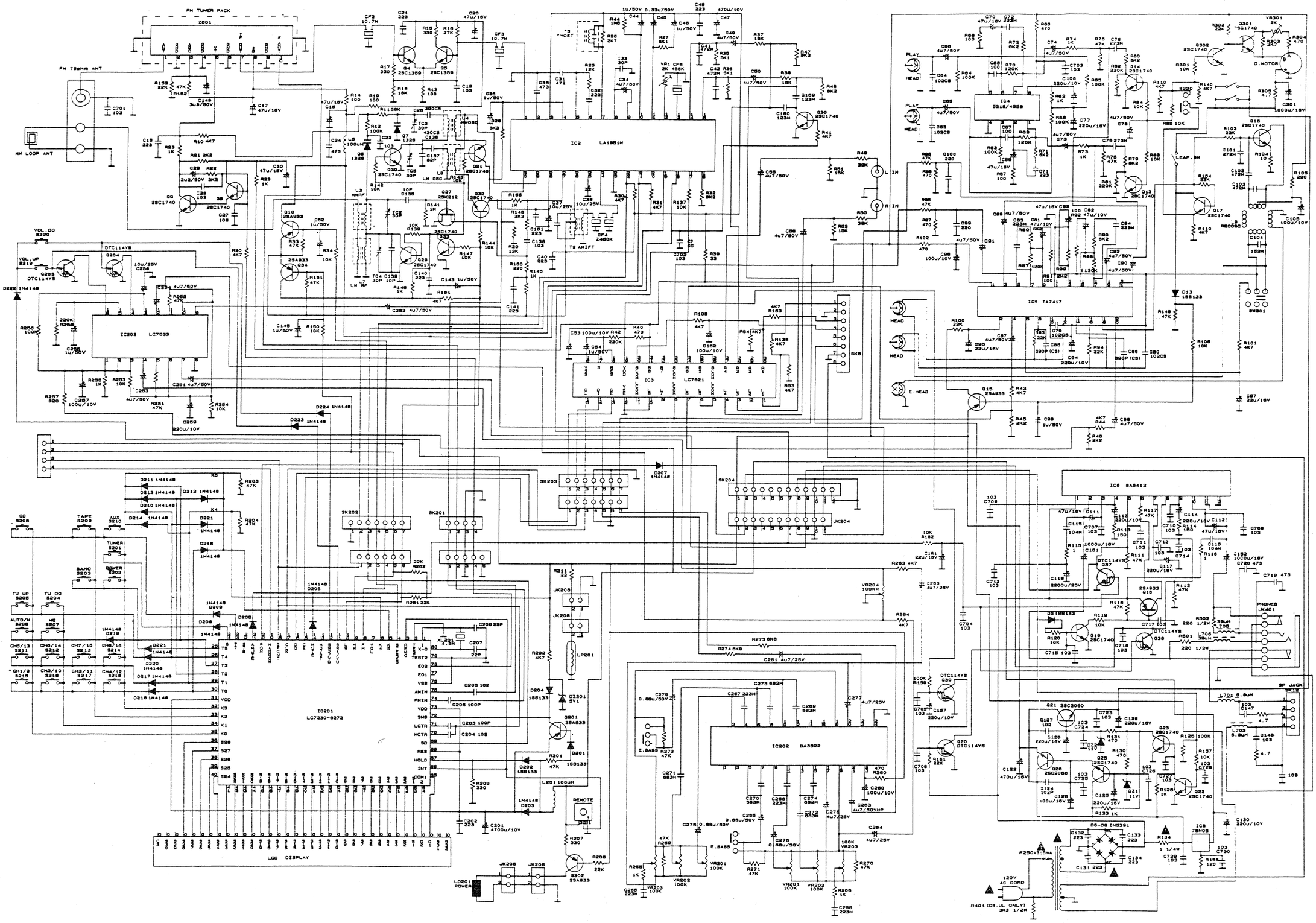
Klassierung:
GKz: G Geröt
WGT: 650 MICRO-/MINI-ANLAGEN
KD-Sektor: R RUNDFUNK
BaumNr.: 00
IFW-FehlerGru.: 205 RDF.,VERST.,TB.,PHONO,CD,CB
Type/Privileg/Universum.Nr VTC-CD3036
VK-Preis: 499.00

Serviceart:
Garantie fuer Kunden 06 Monate

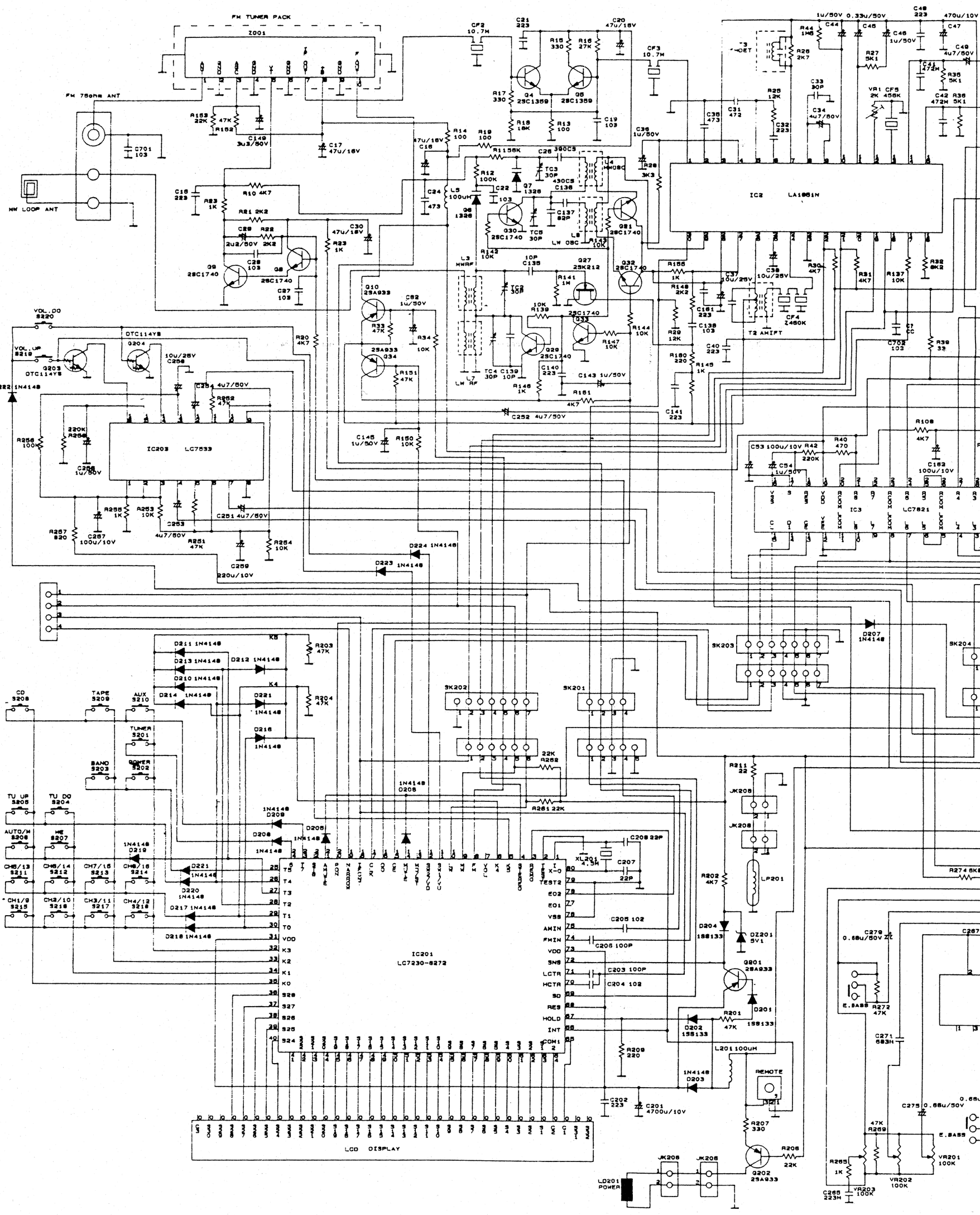
WIRING DIAGRAM



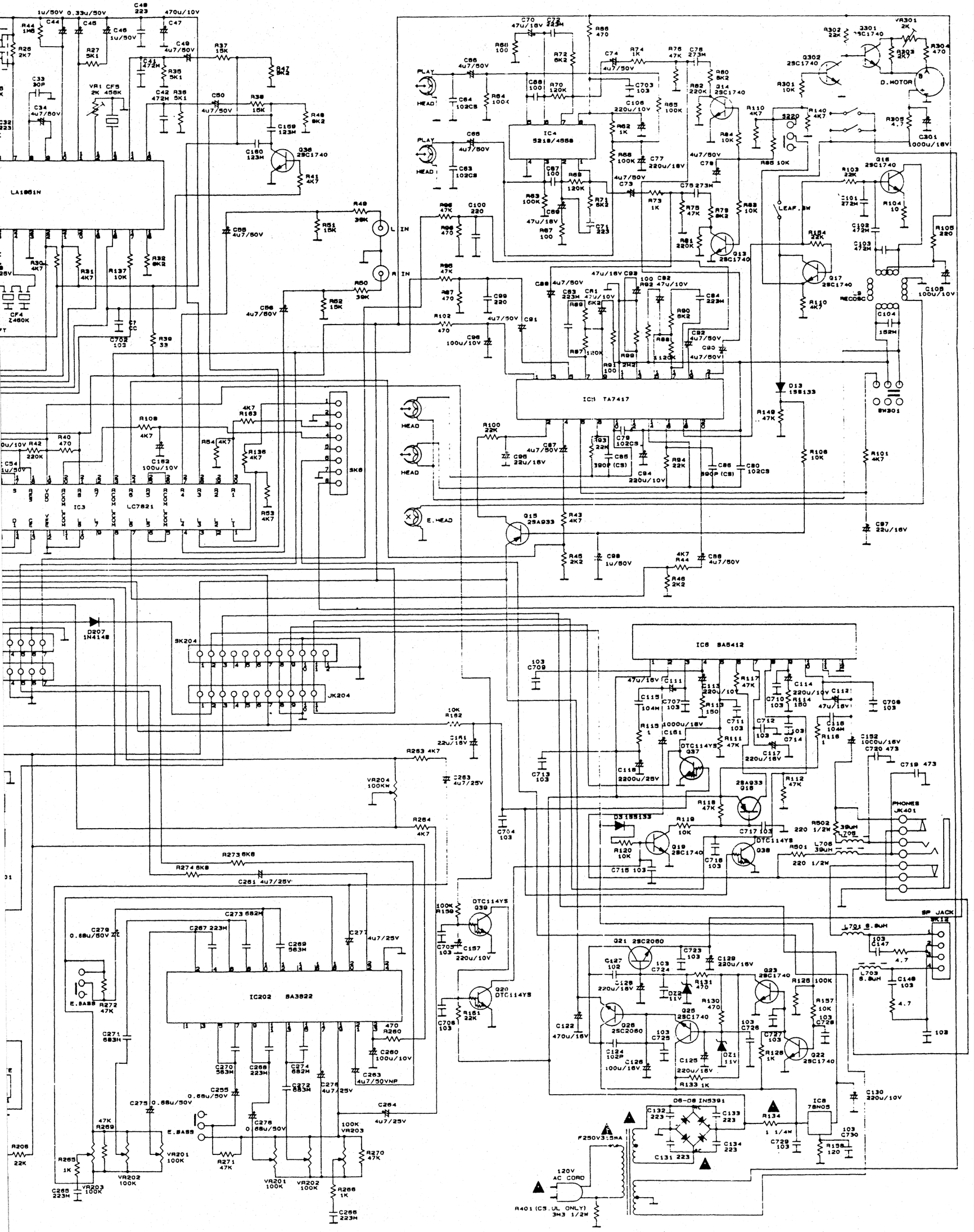
SCHEMATIC DIAGRAM (Tuner)



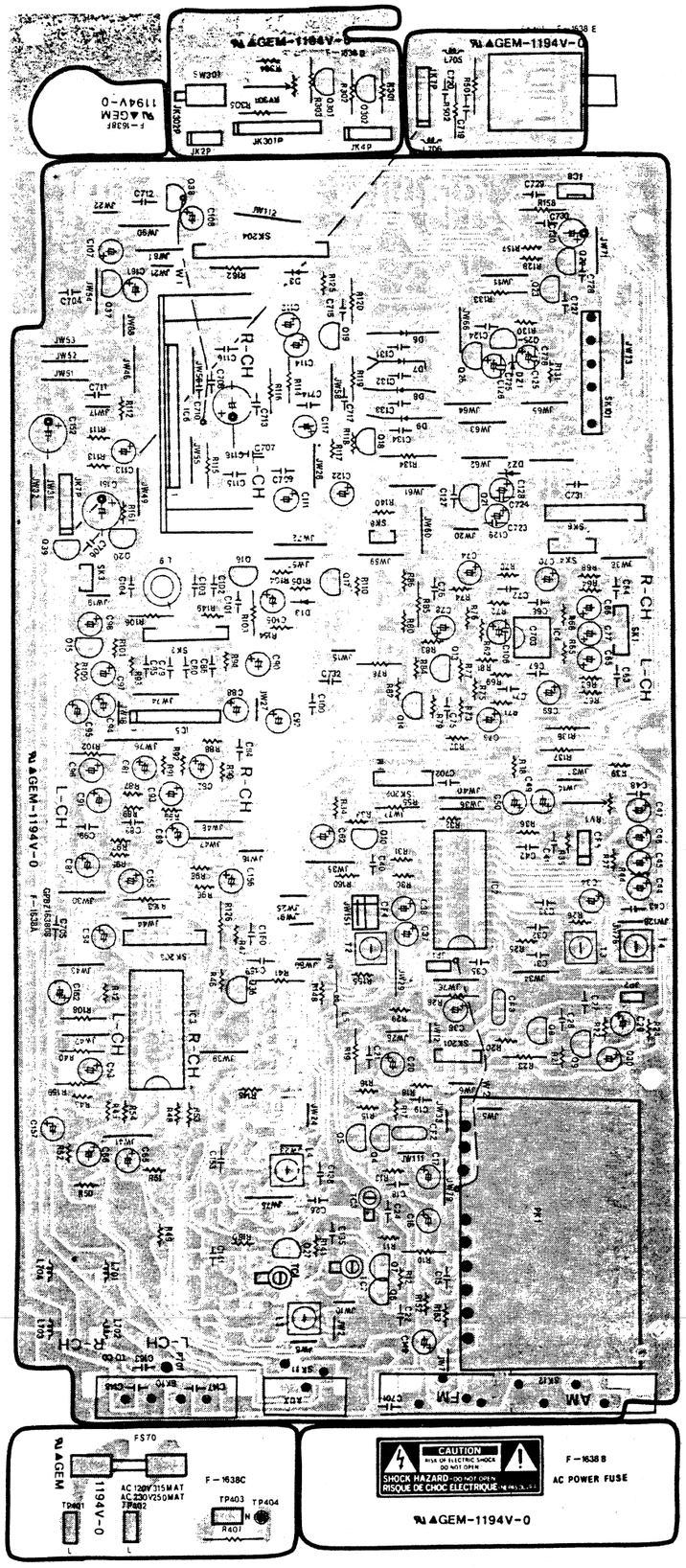
SCHEMATIC DIAGR



CHEMATIC DIAGRAM (Tuner)

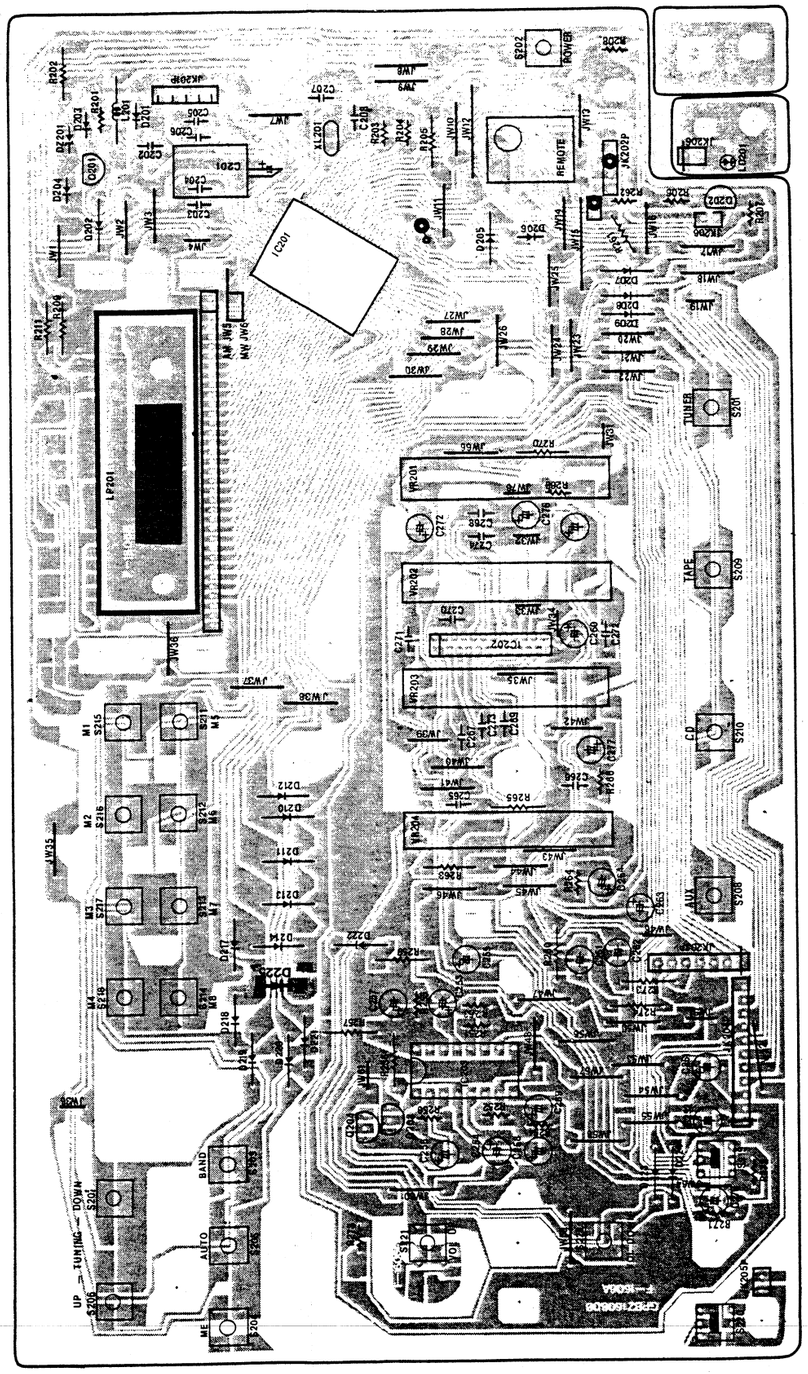


TUNER & AMP PCB

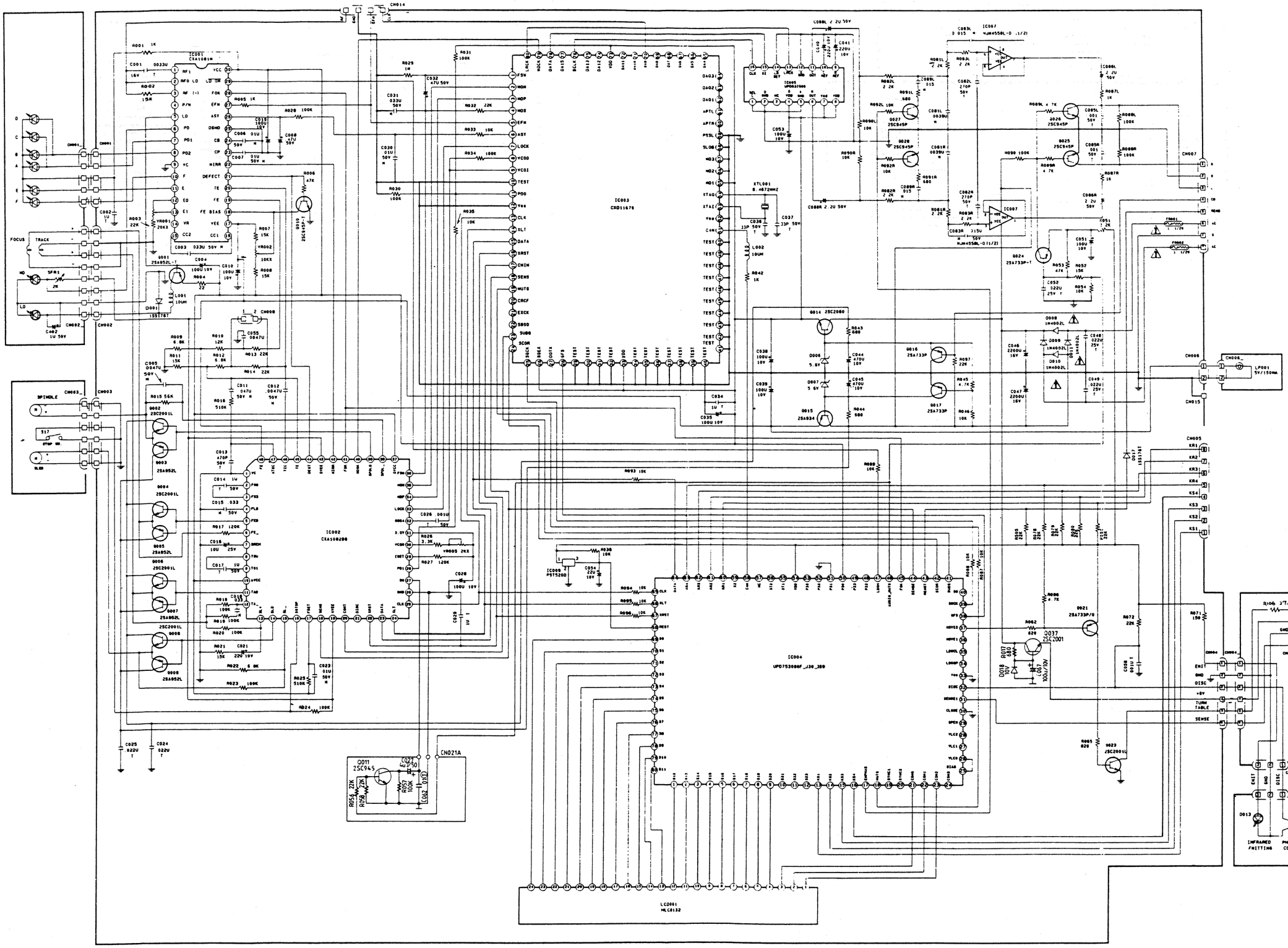


PARTS LOCATION OF P.C.BOARD

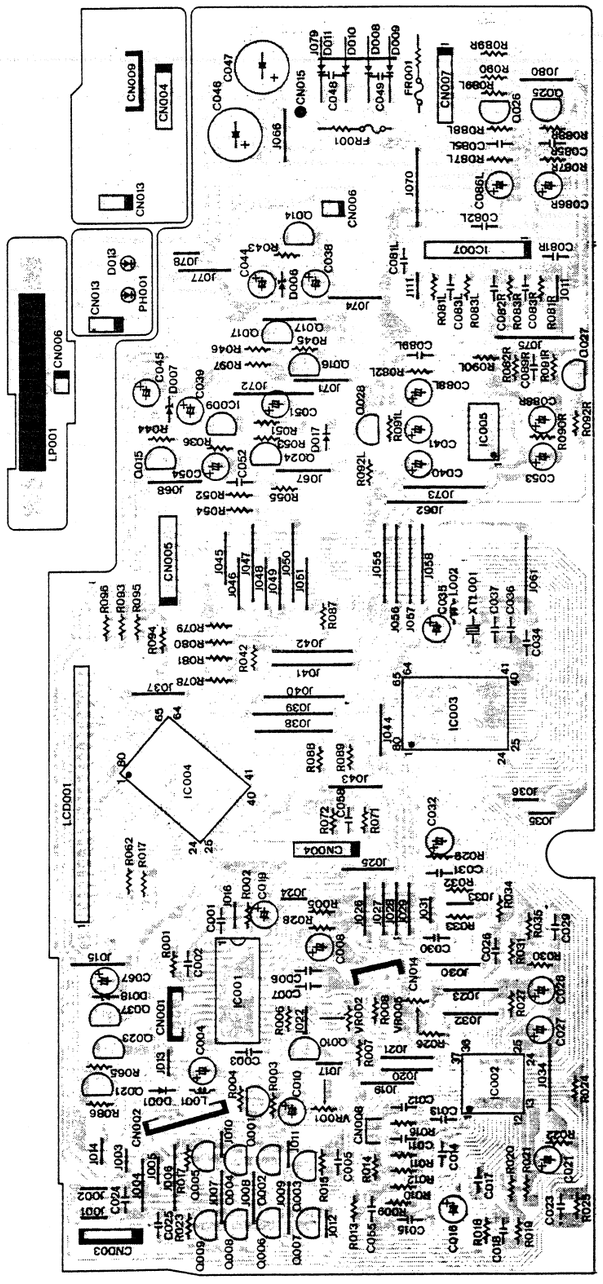
MAIN PCB



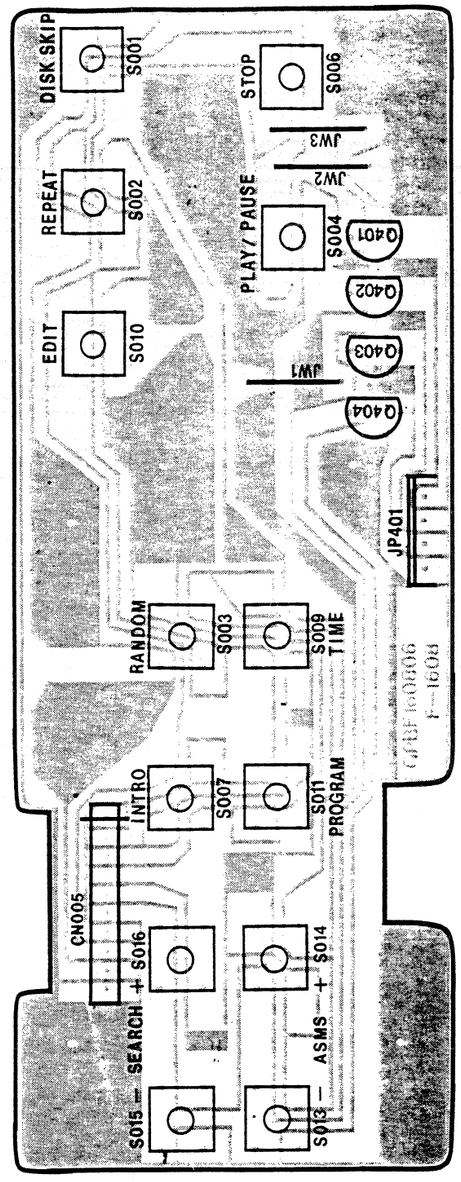
CD


IC001 CXA1081M
IC002 CXA1082BS
IC003 CXD1167B
IC004 UPD753086F-XXX-3B9
IC005 UPD63784A
IC007 NJM4558L-D (1/2)
LC0001 MLC8132
XTL001 8.4672MHZ
CN001
CN002
CN003
CN004
CN005
CN006
CN007
CN008
CN009
CN010
CN011
CN012
CN013
CN014
CN015
CN016
CN017
CN018
CN019
CN020
CN021A
LP001 5V/150MA
SPINDLE
SLED
FOCUS
TRACK
SFR1
STOP SW.
S17
S18
PH001 PT292C
INFRARED EMITTING
PHOTO COUPLER
TURN TABLE MOTOR
STOP (OPEN) MOVE (CLOSE)
TURN TABLE SENSE
EMIT
GND
DISC
+5V

CD PCB



Switch PCB

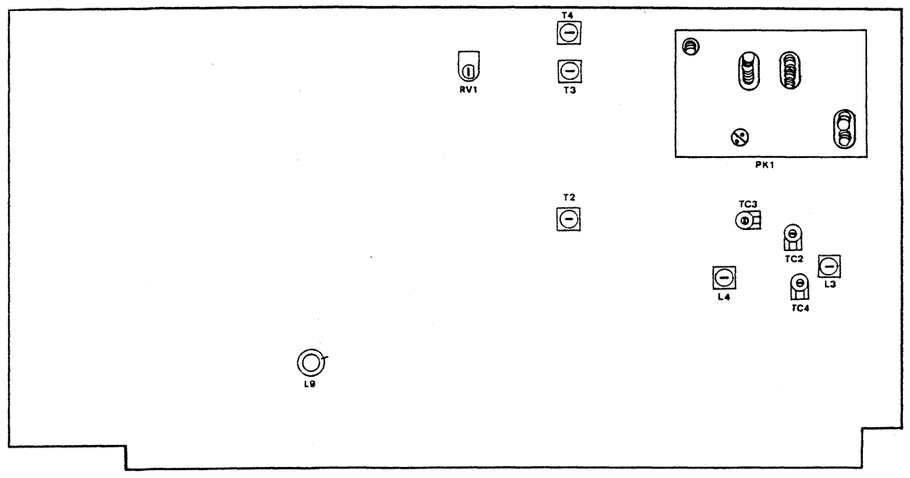


ALIGNMNT INSTRUCTIONS

FM Alignm ent

Step	Subject		Feed Signal From	Feed Signal To	Measure Output	Adjust		Adjust For	Remarks
1	IF Coil Adjust		Sweep General 10.7 MHz 1 mA Output	Between VIA 100 pF point Ⓐ (IC1 Pin3) and GND.	Between VIA 100 nF Point Ⓑ (IC2 Pin9) nad GND. Oscilloscope	1)	T1	MAX. Wavefrom	∧
						2)	T3	"S" curve is symmtrical	∿
						Repeat Steps 1) and 2) above.			
2	108 MHz or 107.9 MHz Tuning Adjust		No Input	———	LCD Display	Tuning Up/Down Button		108 MHz or 107.9 MHz	
					Between Point Ⓒ and GND. DC Volt Meter	L2 Osc Trimmer		DC 7V	
3	90 MHz or 90.1 MHz RF Adjust	1)	FM General 90 MHz 5 uV 1 kHz DEV 22.5 kHz	ANT. Terminal	LCD Display	Tuning Up/Down Button		90 MHz	Repeat: Steps 1) and 2) above
					Between Point Ⓑ and GND. Oscilloscope	L1 RF Coil		MAX. WAVE	
	106 MHz or 106.1 MHz RF Adjust	2)	FM General 106 MHz 5 uV 1 kHz DEV 22.5 kHz	ANT. Terminal	LCD Display	Tuning Up/Down Button		106 MHz	
					Between Point Ⓑ and GND. Oscilloscope	TC1 RF Trimmer		MAX. WAVE	
4	Discriminator Coil Adjust		FM General 98 MHz 1 mV 1 kHz DEV 22.5 kHz	ANT. Terminal	LCD Display	Tuning Up/Down Button		98 MHz	
					Between TP1 and TP2 (Across 3.3 kohm R28) Meter Scope.	1)	L4	DC 0V ± 30 mV	
						2)	L5	MIN THD	
						Repeat Steps 1) and 2) above.			
5	Multiplex Adjust		FM General 98 MHz 1 mV DEV:AF kHz L+R: 40 kHz Pilot: 6 kHz	ANT. Terminal	LCD Display	Tuning Up/Down Button		98 MHz	Separation Check: L-R/R-L More than 26 dB
					Between Point Ⓕ and GND. Frequency Counter	RV1		MIN WAVE	

Tuner PCB



AM Alignment

Step	Subject		Feed Signal (initial cop only) FROM	Feed Signal (initial cop only) To	Measure Output	Adjust	Adjust For	Remarks
1	IF Coil Adjust		Sweep General 450 kHz 80 dB Output	Between VIA 102 nF Point Ⓓ (IC2 Pin29)	Between VIA 100 nF Point E and GND. Oscilloscope	T2	MAX. WAVE	∩
2	522 kHz or 530 kHz Tuning Adjust	1)	No Input	———	LCD Display	Tuning Up /Down Button	522 kHz or 530 kHz	Repeat Step 2. Or "Step" 2 and 3. Use whichever is appropriate. Both Step 2 and Step 3 are made up of a Step 1) and a Step 2).
					Between Point Ⓒ and GND. DC Volt meter	L4 Osc Coil	DC 1.0 V ± 0.1 V	
	1611 kHz or 1720 kHz Tuning Adjust	2)	No Input	———	LCD Display	Tuning Up /Down Button	1611 kHz or 1720 kHz	
					Between Point Ⓒ and GND. DC Volt meter	TC3 Osc Trimmer	DC 8 V ± 0.1 V	
3	603 kHz or 600 kHz RF Adjust	1)	AM General 603 kHz or 600 kHz 1500 µV/m 1 kHz MOD. 30%	Between ferrite of set distance is 60 cm	LCD Display	Tuning Up /Down Button	603 kHz or 600 kHz	
					Between Point VIA 100 nF Ⓔ and GND. Oscilloscope	L 3 Ant Coil	MAX. WAVE	
	1404 kHz or 1400 kHz RF Adjust	2)	AM General 1404 kHz or 1400 kHz 1500 µV/m 1 kHz MOD. 30%		LCD Display	Tuning Up /Down Button	1404 kHz or	
					Between Point VIA 100 nF Ⓔ and GND. Oscilloscope	TC2 Ant Trimmer	MAX. WAVE	

Cassette Electrical Adjustment

Step	Adjustment Item	Test Tape Supply Signal	Mode	Adjustment Point	Result	Remarks
1	DECK A	3 kHz -10 dB Test Tape	DECK A: Play	Built-In Cass. Motor VR301	3000 Hz	While adjusting Speed, Fig. 2
2	DECK B Normal Speed	3 kHz -10 dB Test Tape	DECK B: Play	Built-In Cass. Motor VR301	3000 Hz	While adjusting speed, Fig. 2

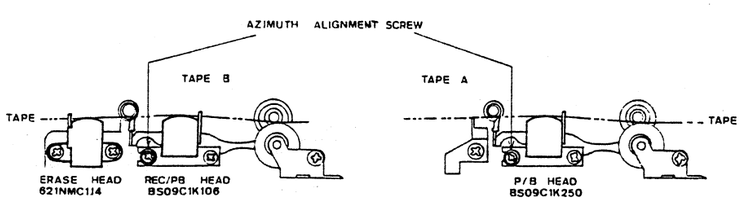


Figure 1 Head Adjustment

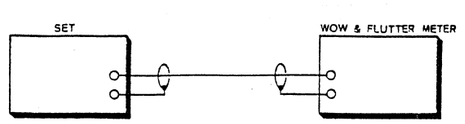


Figure 2 Tape Speed Adjustment

CD ADJUSTMENT PROCEDURE

Before making any adjustments:

a. Remove the turntable by sliding the guide plate outward(Fig. 3).

b. Disassemble the base cover by removing 2 screws.

CAUTION:

The aser beam may night active. when the turntable is removed.

The use of control adjustment, or making adjustments other than those specified herein, may result in hazardous rediation exposure.

The compact disc player should not be adjusted or repaired by anyone except qualified service personnel.

1. VCO Adjustment
   a. Connect CN007 to a power supply, then install test disc SONY YEDS-18 into the CD player and fasten it with a magnetic holden(Fig. 3).
   b. Turn on the system and the CD player, then go. push switch S006 in stop mode.
   c. Connect the VCO test pin to CN014,then adjust VR005(Fig. 8) for a reading of 4.23 MHz +/-30 kHz on the freguency cunter (Fig. 4).
   d. Disconnect the test pin after finishing this procedure.

2. RF Adjustment
   a. Connect RF test pin to CN014 and set the CD player to play mode (Fig. 5).
   b. Adjust VR002 (Fig. 8) for maximum waveform (Fig. 6).

3. Track offset Adjustment
   a. Connect the track offset test pin to CN008 (Fig. 5).
   b. Adjust VR001 (Fig. 8) to make the waveform like that shown in Fig. 7 (A1=A2).

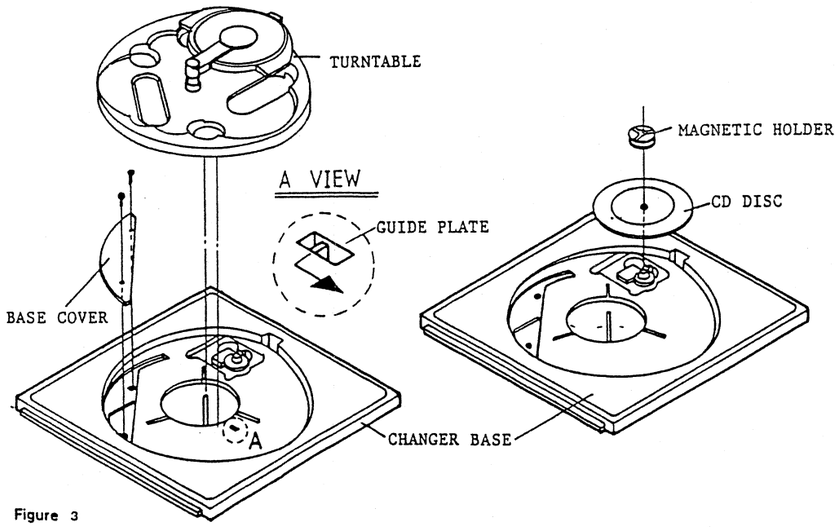
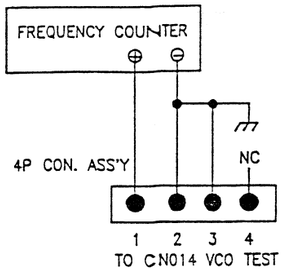


Figure 3



NOTE: VCO TEST EFM TO GND.
TRACK OFFSET TEST
CN008 PIN 2 TO GND.

Figure 4

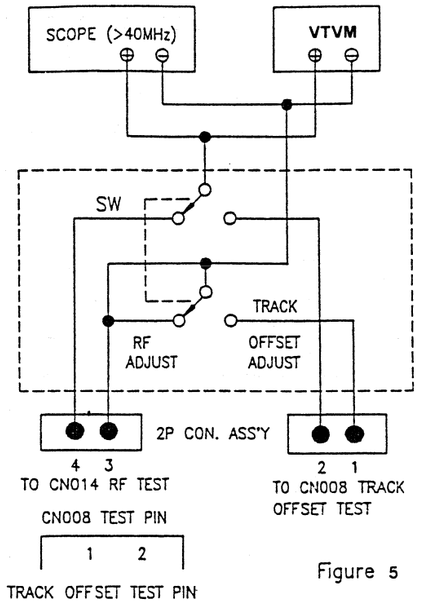


Figure 5

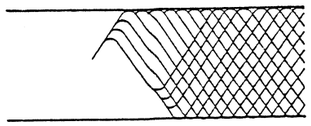


Figure 6

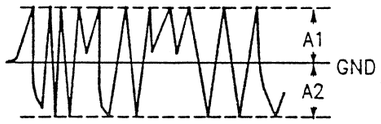


Figure 7

Adjustment Location

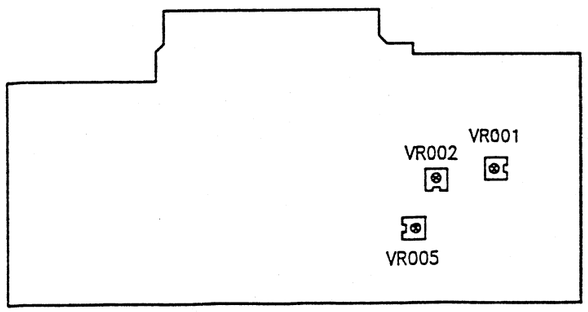
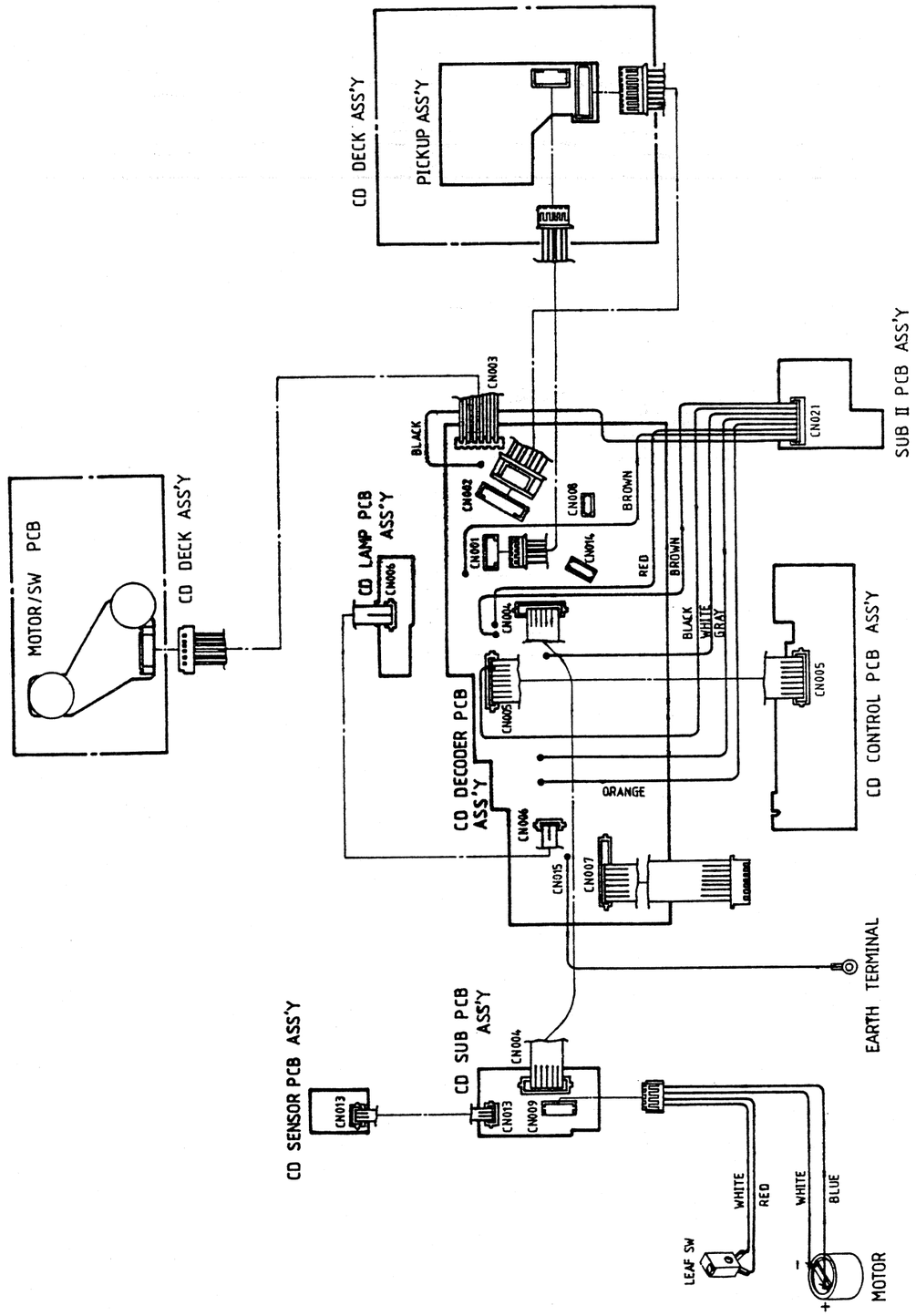
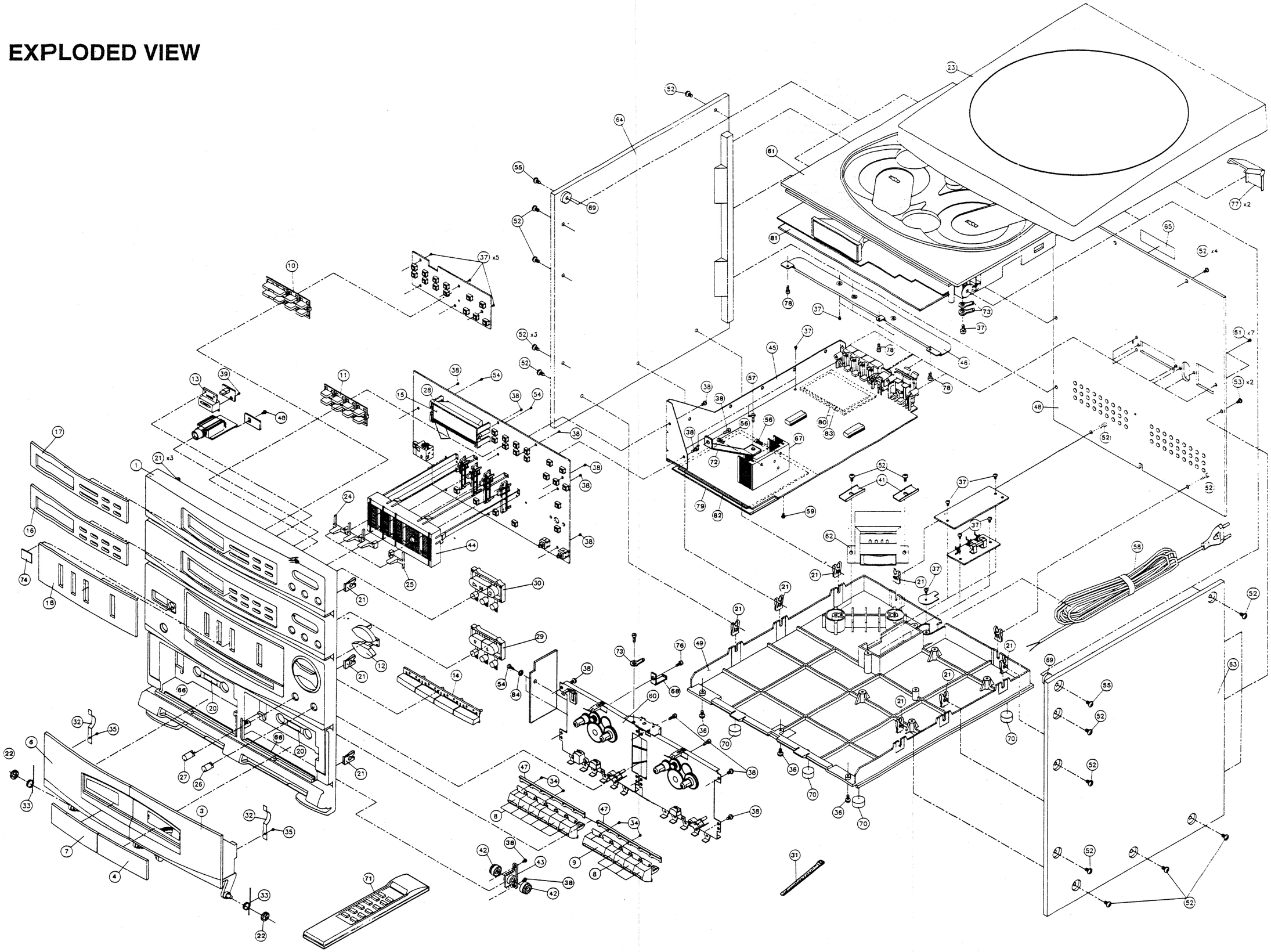


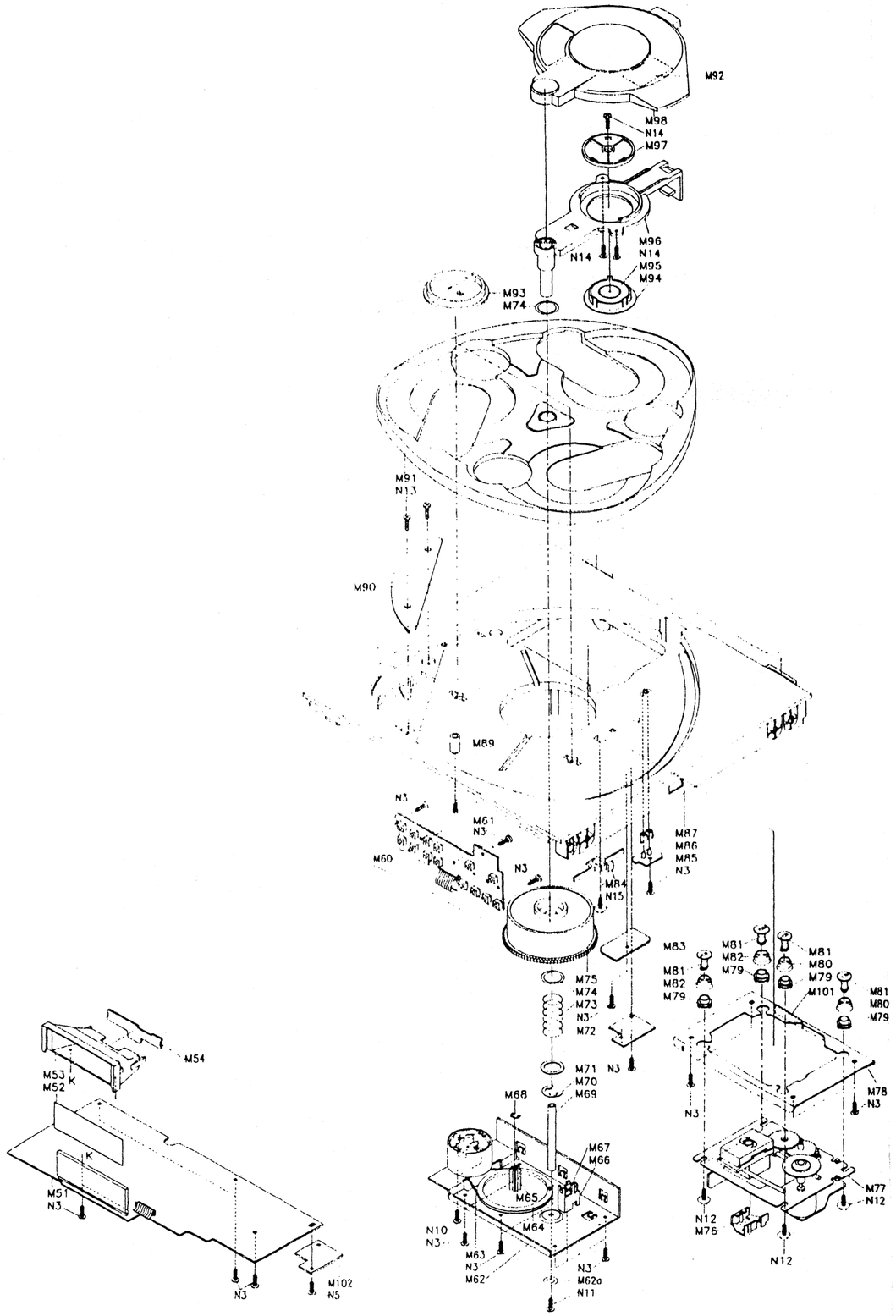
Figure 8

CD WIRING DIAGRAM



EXPLODED VIEW

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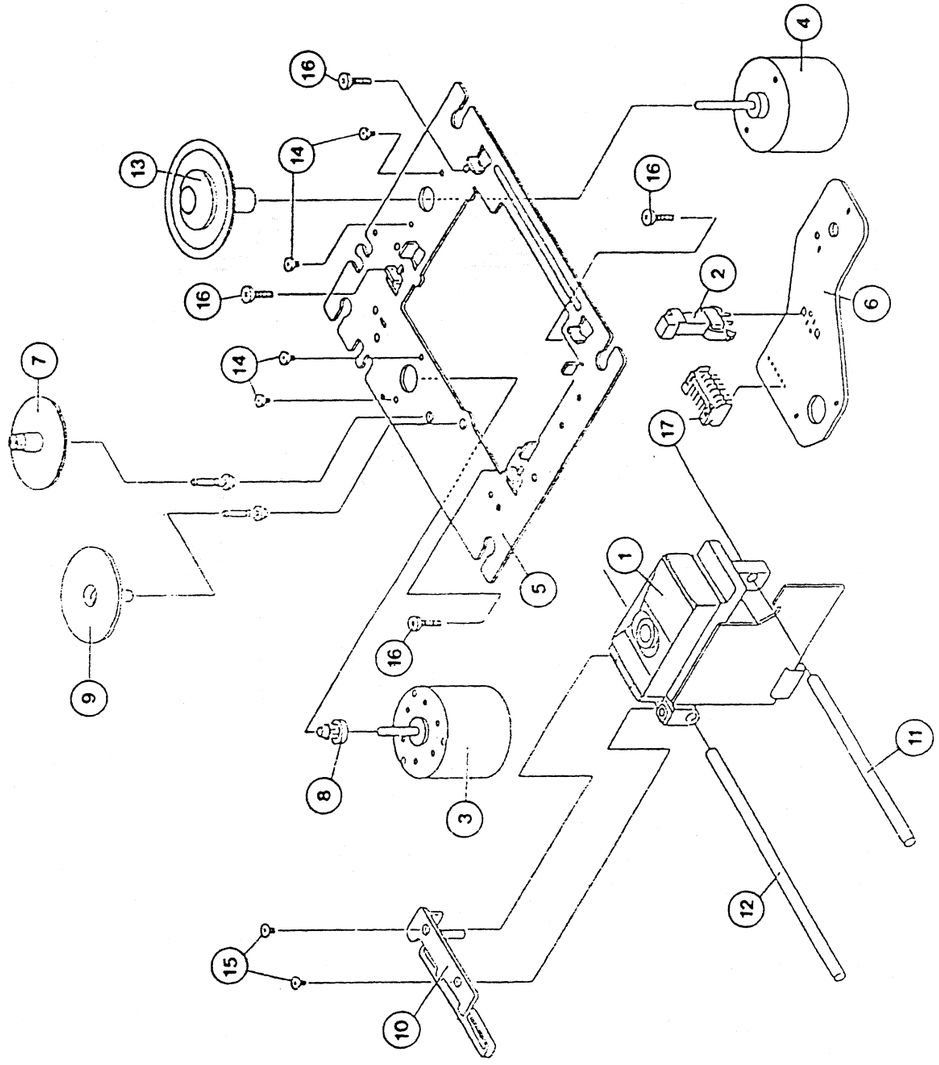
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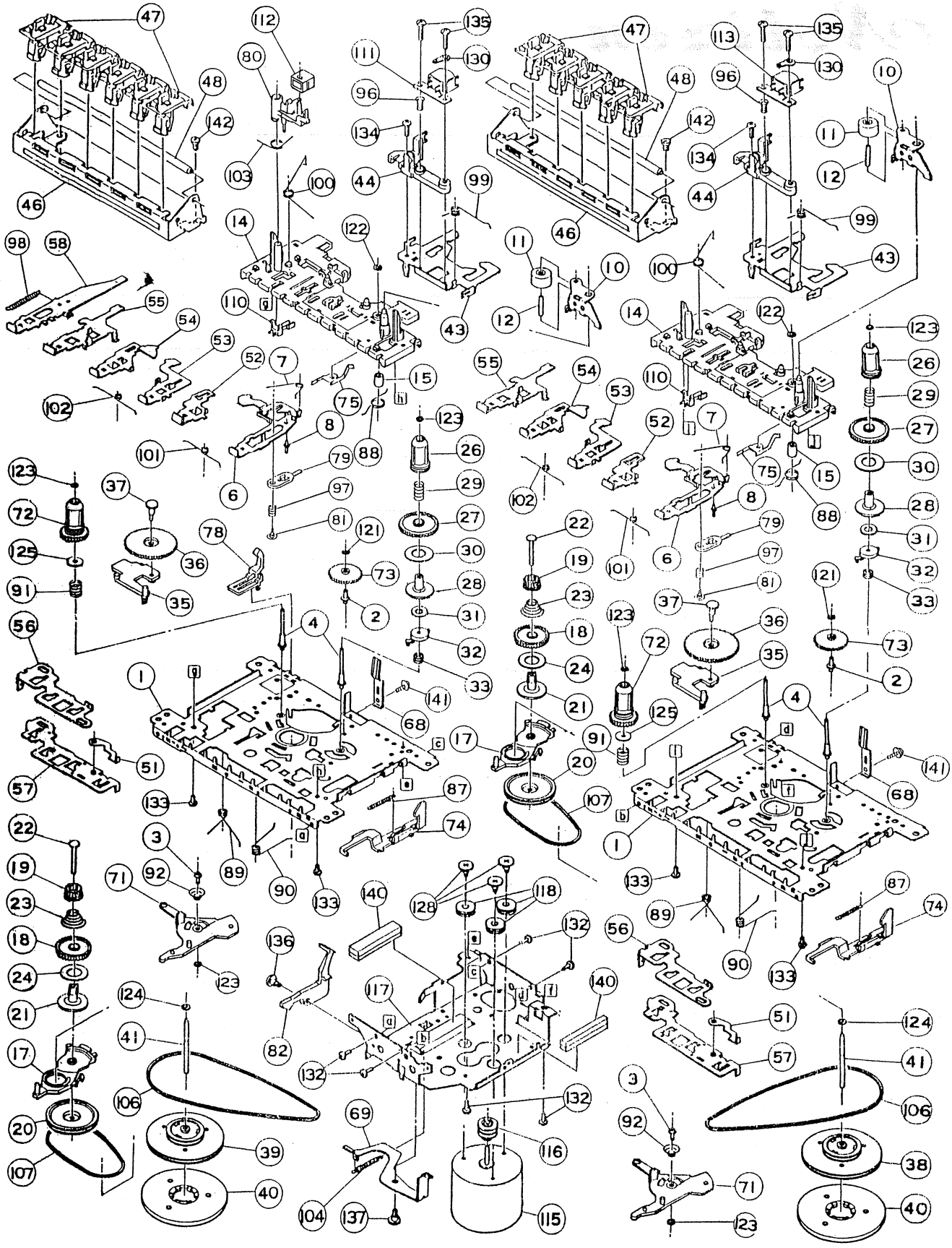

Notizen